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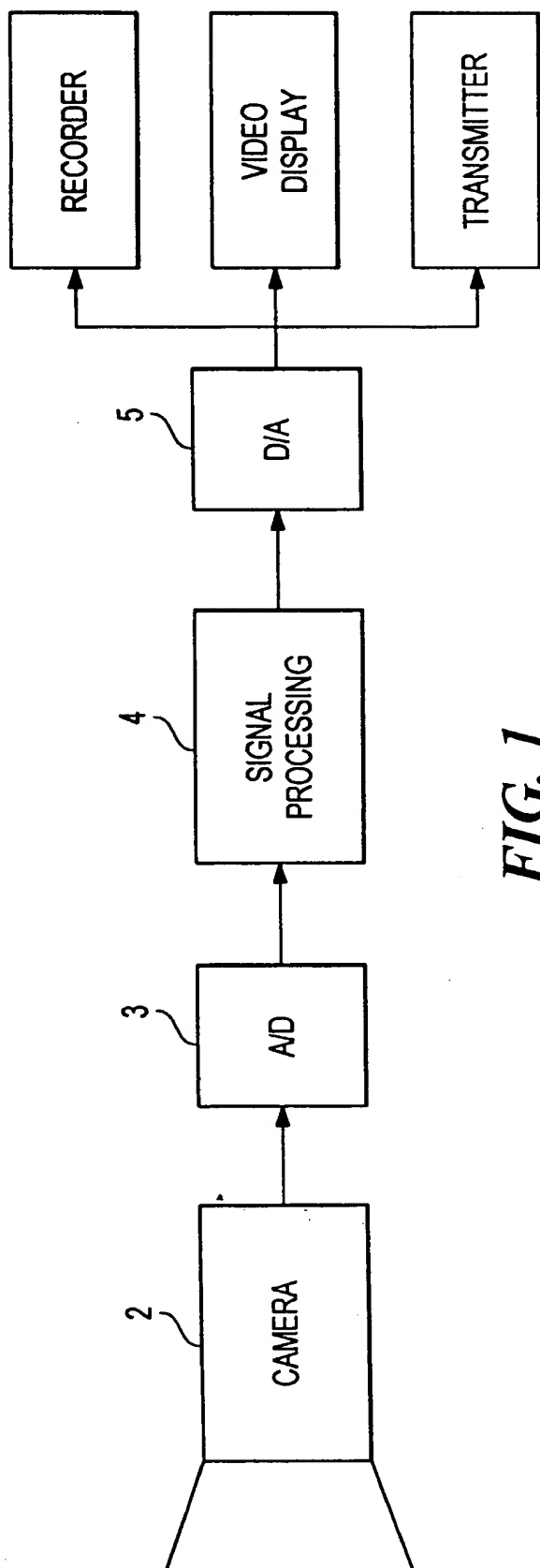


FIG. 1

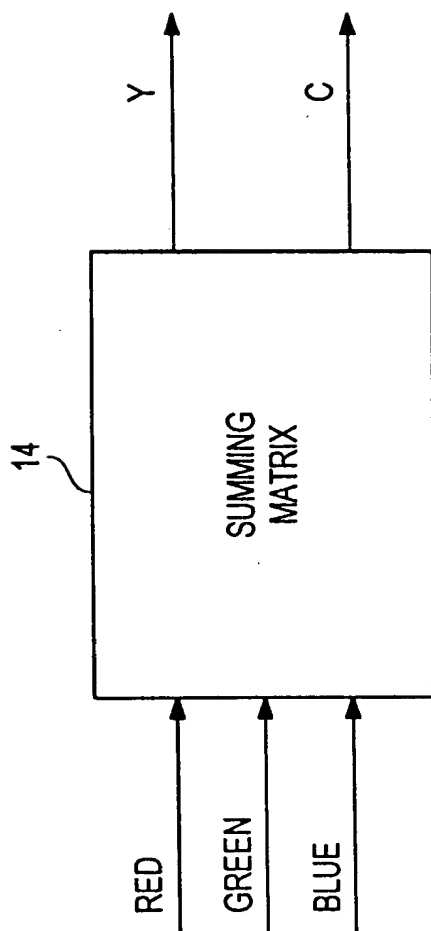


FIG. 2



FIG. 3

GAIN TABLE MEMORY EXAMPLES

(WHITE) ↑

0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

LOW PASS
VALUES

(BLACK)

GAIN TABLE 0
ALL VALUES = 0

FIG. 4A

0.5
0.5
0.5
0.5
0.5
0.5
0.5
0.5
0.5

GAIN TABLE 1
ALL VALUES = 0.5

FIG. 4B

1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0

GAIN TABLE 2
ALL VALUES = 1.0

FIG. 4C

1.0
1.0
1.1
1.1
1.2
1.2
1.3
1.3

GAIN TABLE 3
ENHANCEMENT
LEVEL 1

FIG. 4D



GAIN TABLE MEMORY EXAMPLES

(WHITE) ↑

LOW PASS
VALUES

1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7

(BLACK)

GAIN TABLE 4
ENHANCEMENT
LEVEL 2

FIG. 4E

1.0
1.1
1.2
1.4
1.6
1.9
2.3
2.7

GAIN TABLE 5
ENHANCEMENT
LEVEL 3

FIG. 4F

1.0
1.1
1.3
1.5
2.0
2.5
3.0
3.5

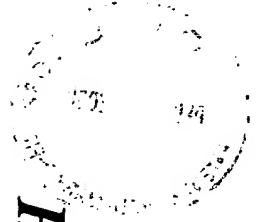
GAIN TABLE 5
ENHANCEMENT
LEVEL 4

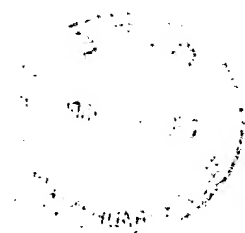
FIG. 4G

1.0
1.2
1.5
1.8
2.2
2.7
3.3
4.0

GAIN TABLE 7
ENHANCEMENT
LEVEL 5

FIG. 4H





REGIONAL CONTROL TABLE
MEMORY EXAMPLE 1

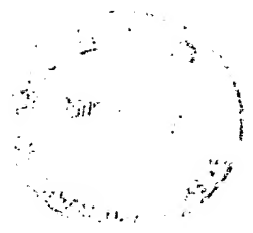
VERT ↑

0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	7	7	7	0	0	0
0	0	0	7	7	7	0	0	0
0	0	0	7	7	7	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

SMALL ENHANCED
REGION SURROUNDED
BY GAIN = 0 AREA

→
HORIZ

FIG. 5A



REGIONAL CONTROL TABLE
MEMORY EXAMPLE 2

↑
VERT

0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

LARGER ENHANCED
REGION SURROUNDED
BY GAIN = 0 AREA

→
HORIZ

FIG. 5B



REGIONAL CONTROL TABLE
MEMORY EXAMPLE 3

↑
VERT

0	0	0	0	0	0	0	0	0
0	1	1	1	1	1	1	1	0
0	1	2	2	2	2	2	1	0
0	1	2	7	7	7	2	1	0
0	1	2	7	7	7	2	1	0
0	1	2	7	7	7	2	1	0
0	1	2	2	2	2	2	1	0
0	1	1	1	1	1	1	1	0
0	0	0	0	0	0	0	0	0

SMALL ENHANCED
REGION SURROUNDED BY
GRADUATED SOFTENING REGIONS

→
HORIZ

FIG. 5C



REGIONAL CONTROL TABLE
MEMORY EXAMPLE 4

↑
VERT

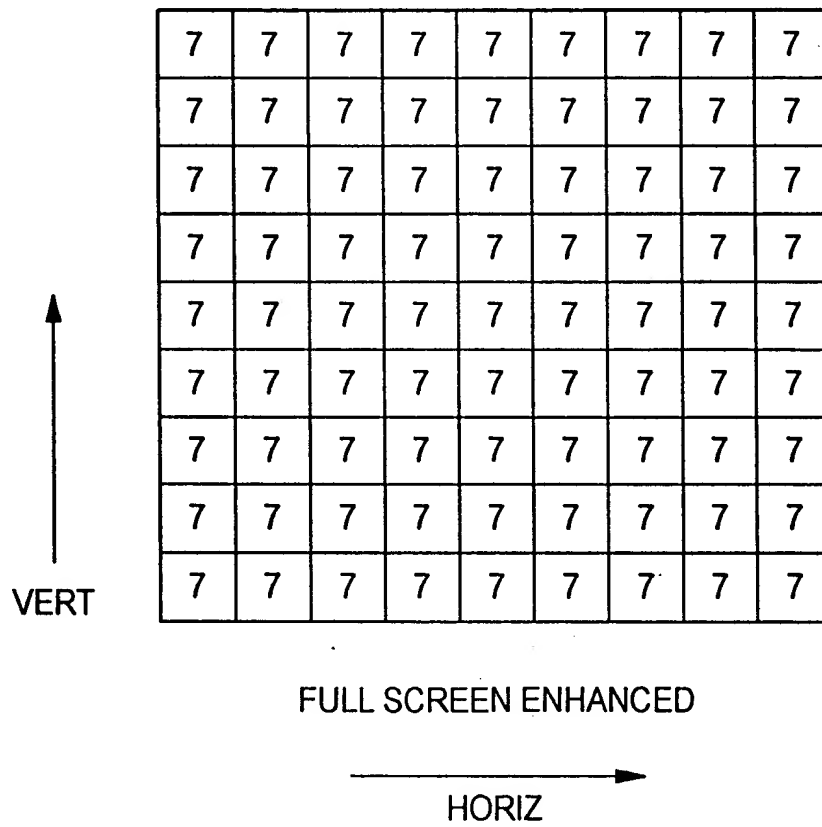
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2

SPLIT SCREEN
LEFT SIDE ENHANCED
RIGHT SIDE GAIN = 1

→
HORIZ

FIG. 5D

REGIONAL CONTROL TABLE
MEMORY EXAMPLE 5



7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7

VERT

FULL SCREEN ENHANCED

HORIZ

FIG. 5E